

InElec® POMCCF10

Americhem - Acetal (POM) Copolymer Alloy

General Information

Product Description

10% CARBON FIBER REINFORCED COPOLYMER ACETAL

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Carbon Fiber, 10% Filler by Weight
Features	• Filled • Good Dimensional Stability • High Stiffness • High Strength • Permanent Antistatic
Uses	• Consumer Applications • Electrical/Electronic Applications • Engineering Parts • Industrial Applications • Office Automation Equipment
Forms	• Pellets
Processing Method	• Injection Molding

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.44		ASTM D792
Specific Volume	19.2	in ³ /lb	
Molding Shrinkage - Flow	7.0E-3 to 9.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.26	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	10500	psi	ASTM D638
Tensile Elongation (Yield)	3.0 to 5.0	%	ASTM D638
Flexural Modulus	1.10E+6	psi	ASTM D790
Flexural Strength	17000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	1.1	ft-lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	8.0	ft-lb/in	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	300	°F	ASTM D648
CLTE - Flow	3.6E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+7	ohms	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	4.0	hr
Processing (Melt) Temp	375 to 410	°F
Mold Temperature	200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	30 to 60	rpm
Vent Depth	5.0E-4 to 1.0E-3	in

